

## Specification for the book of courses

<b>Study program</b>		Computing and Informatics		
<b>Module</b>		Information Systems and Technologies		
<b>Type and level of studies</b>		Master studies		
<b>The name of the course</b>		Information Technologies for Development of E-Government Systems		
<b>Lecturer (for lectures)</b>		Stoimenov V. Leonid, Stanimirović S. Aleksandar		
<b>Lecturer/associate (for exercises)</b>		Veljković Ž. Nataša		
<b>Lecturer/associate (for OFE)</b>				
<b>Number of ECTS</b>	4	<b>Course status (obligatory/elective)</b>	Elective	
<b>Prerequisites</b>				
<b>Course objectives</b>	Getting acquainted with the basic concepts of e-Government system and mastering technologies for designing and implementing various aspects of such systems.			
<b>Course outcomes</b>	Theoretical and practical knowledge of the concepts, design and implementation of e-Government systems			
<b>Course outline</b>				
<b>Theoretical teaching</b>	Getting acquainted with the basic concepts of e-Government system. History of e-government development. Analysis of key aspects of e-Government: data, e-services, applications, infrastructure. Data management in e-government systems: models and databases, data mining techniques, ontologies, semantic analysis. Open data and open data platforms. Analysis of the open data portals in e-Government. Aspects of integration of information: service-oriented architecture, Web services. Development of back-office and front-office applications. Current issues of e-Government infrastructure development: cloud technology.			
<b>Practical teaching (exercises, OFE, study and research)</b>	Practical classes: Exercises, Research work			
<b>Textbooks/references</b>				
1	Mahmood, Z. (2013). E-Government Implementation and Practice in Developing Countries (pp. 1-348). doi:10.4018/978-1-4666-4090-0			
2	Reddick, C. & Aikins, Stephen K. (2012). Political, Policy and Management Implications Series: Public Administration and Information Technology (pp. 1- 275), Vol. 1, Springer.			
3	Vitvar, T., Peristeras, V., & Tarabanis, K. (2010). Semantic Technologies for E-Government. XVI, (pp. 1 - 320), ISBN 978-3-642-03507-4, Springer.			
4	Garson, G. D. (2006). Public Information Technology and E-Governance: Managing the Virtual State. Boston: Jones & Bartlett. 2006.			
5	Milić, P., Veljković, N., & Stoimenov, L. (2018). Semantic technologies in e-government: Toward openness and transparency. In Smart Technologies for Smart Governments (pp. 55-66). Springer, Cham.			
<b>Number of classes of active education per week during semester/trimester/year</b>				
<b>Lectures</b>	<b>Exercises</b>	<b>OFE</b>	<b>Study and research work</b>	<b>Other classes</b>
2	1	0		
<b>Teaching methods</b>	Classes, lab works, research work, homework			
<b>Grade (maximum number of points 100)</b>				
<b>Pre-exam duties</b>	<b>Points</b>	<b>Final exam</b>	<b>Points</b>	
<b>Activity during lectures</b>		<b>Written exam</b>		
<b>Exercises</b>	30	<b>Oral exam</b>	40	
<b>Colloquia</b>				
<b>Projects</b>	30			

